

## APWA Asset Management Road Map Maintenance and Operations Strategies

### Assessing Risk

Part of optimizing the use of resources to provide an infrastructure service is knowing the risk of an asset failing and the affect on the overall service if that asset fails. This is called “criticality” and explained more in Assign Criticality Rating.

In maintaining and operating assets, it is convenient to build this risk calculation into the regular measurement of condition. When maintaining assets you can record the condition in terms of extent and severity. If risk is built into this process, it is easy to translate this information into work orders that spell out the amount and type of work to repair the defects. An example is road shoulder rutting (defect) that is at an unacceptable depth (severity) for most (extent) of the segment evaluated. The solution becomes regrading the shoulder. Knowing this will help plan the work.

Example:

